



### 700/AL700 Nonvision Door Grille

PERFORMANCE BASED ON NOMINAL SIZES SHOWN IN BOLD

Nominal Duct Size (in)	Nominal Duct Area sq. ft	Core Area sq. ft	Core Velocity Velocity Pressure CT-700 Static Pressure T-700 Static Pressure	NC 20		NC 30				NC 40			
				<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>450</b>	<b>500</b>	<b>550</b>	<b>600</b>	
				<b>0.003</b> <b>0.028</b> <b>0.027</b>	<b>0.004</b> <b>0.044</b> <b>0.043</b>	<b>0.006</b> <b>0.063</b> <b>0.062</b>	<b>0.008</b> <b>0.086</b> <b>0.084</b>	<b>0.010</b> <b>0.113</b> <b>0.110</b>	<b>0.013</b> <b>0.143</b> <b>0.139</b>	<b>0.016</b> <b>0.176</b> <b>0.172</b>	<b>0.019</b> <b>0.213</b> <b>0.208</b>	<b>0.022</b> <b>0.254</b> <b>0.247</b>	
<b>6x6</b>	<b>0.25</b>	<b>0.19</b>	Airflow, cfm	38	48	57	67	76	86	95	105	114	
			NC (Noise Criteria)	15	20	24	27	30	32	34	36	38	
<b>8x6</b>	<b>0.33</b>	<b>0.26</b>	Airflow, cfm	52	65	78	91	104	117	160	143	156	
			NC (Noise Criteria)	16	21	25	28	31	33	36	38	39	
<b>10x6</b>	<b>0.42</b>	<b>0.34</b>	Airflow, cfm	68	85	102	119	136	153	170	187	204	
			NC (Noise Criteria)	18	22	26	29	32	35	37	39	41	
<b>8x8</b>	<b>0.44</b>	<b>0.37</b>	Airflow, cfm	74	93	111	130	148	167	185	204	222	
			NC (Noise Criteria)	18	23	26	30	32	35	37	39	41	
<b>12x6</b>	<b>0.50</b>	<b>0.41</b>	Airflow, cfm	82	103	123	144	164	185	205	226	246	
			NC (Noise Criteria)	18	23	27	30	33	35	38	40	41	
<b>14x6</b>	<b>0.58</b>	<b>0.48</b>	Airflow, cfm	96	120	144	168	192	216	240	264	288	
			NC (Noise Criteria)	19	24	28	32	34	37	39	41	43	
<b>16x6</b>			Airflow, cfm	114	143	171	200	228	257	285	314	342	
<b>12x8</b>	<b>0.67</b>	<b>0.57</b>	NC (Noise Criteria)	20	24	28	31	34	36	38	40	42	
			Airflow, cfm	118	148	177	207	236	266	295	325	354	
<b>10x10</b>	<b>0.69</b>	<b>0.59</b>	NC (Noise Criteria)	20	25	28	32	34	37	39	41	43	
			Airflow, cfm	126	158	189	221	252	284	315	347	378	
<b>18x6</b>	<b>0.75</b>	<b>0.63</b>	NC (Noise Criteria)	20	25	29	32	35	37	39	41	43	
			Airflow, cfm	144	180	216	252	288	324	360	396	432	
<b>12x10</b>	<b>0.83</b>	<b>0.72</b>	NC (Noise Criteria)	21	25	29	33	35	38	40	42	44	
			Airflow, cfm	154	193	231	270	308	347	385	424	462	
<b>22x6</b>	<b>0.92</b>	<b>0.77</b>	NC (Noise Criteria)	21	26	30	33	36	38	40	42	44	
			Airflow, cfm	176	220	264	308	352	396	440	484	528	
<b>24x6</b>			NC (Noise Criteria)	22	26	30	33	36	39	41	43	45	
<b>12x12</b>	<b>1.00</b>	<b>0.88</b>	Airflow, cfm	222	278	333	389	444	500	555	611	666	
<b>30x6</b>	<b>1.25</b>	<b>1.11</b>	NC (Noise Criteria)	23	27	31	34	37	40	42	44	46	
			Airflow, cfm	244	305	366	437	488	549	610	671	732	
<b>14x14</b>	<b>1.36</b>	<b>1.22</b>	NC (Noise Criteria)	23	28	32	35	38	40	42	44	46	
			Airflow, cfm	270	338	405	473	540	608	675	743	810	
<b>18x12</b>	<b>1.50</b>	<b>1.35</b>	NC (Noise Criteria)	24	28	32	35	38	41	43	45	47	
			Airflow, cfm	274	343	411	480	548	617	685	754	822	
<b>22x10</b>	<b>1.53</b>	<b>1.37</b>	NC (Noise Criteria)	24	28	32	35	38	41	43	45	47	
			Airflow, cfm	298	373	447	522	596	671	745	820	894	
<b>30x8</b>			NC (Noise Criteria)	24	28	32	35	38	41	43	45	47	
<b>24x10</b>	<b>1.67</b>	<b>1.49</b>	Airflow, cfm	318	398	477	557	636	716	795	875	954	
<b>42x6</b>			NC (Noise Criteria)	24	29	33	36	39	41	43	45	47	
<b>18x14</b>	<b>1.75</b>	<b>1.59</b>	Airflow, cfm	324	405	486	567	648	729	810	891	972	
<b>16x16</b>	<b>1.78</b>	<b>1.62</b>	NC (Noise Criteria)	24	29	33	36	39	41	44	46	47	
			Airflow, cfm	364	455	546	637	728	819	910	1001	1092	
<b>24x12</b>	<b>2.00</b>	<b>1.82</b>	NC (Noise Criteria)	25	30	33	37	39	42	44	46	48	
			Airflow, cfm	414	518	621	725	828	932	1035	1139	1242	
<b>18x18</b>	<b>2.25</b>	<b>2.07</b>	NC (Noise Criteria)	25	30	34	37	40	42	45	47	48	
			Airflow, cfm	428	535	642	749	856	963	1070	1177	1284	
<b>24x14</b>	<b>2.33</b>	<b>2.14</b>	NC (Noise Criteria)	26	30	34	37	40	42	45	47	49	
			Airflow, cfm	458	573	687	802	916	1031	1145	1260	1374	
<b>30x12</b>	<b>2.50</b>	<b>2.29</b>	NC (Noise Criteria)	26	31	34	38	40	43	45	47	49	
			Airflow, cfm	493	615	738	861	984	1107	1230	1353	1476	
<b>24x16</b>	<b>2.67</b>	<b>2.46</b>	NC (Noise Criteria)	26	31	35	38	41	43	45	47	49	
			Airflow, cfm	514	643	771	900	1028	1157	1285	1414	1542	
<b>20x20</b>	<b>2.78</b>	<b>2.57</b>	NC (Noise Criteria)	26	31	35	38	41	43	46	48	49	
			Airflow, cfm	622	778	933	1089	1244	1400	1555	1711	1866	
<b>30x16</b>	<b>3.33</b>	<b>3.11</b>	NC (Noise Criteria)	27	32	36	39	42	44	46	48	50	
			Airflow, cfm	628	785	942	1099	1256	1413	1570	1727	1884	
<b>22x22</b>	<b>3.36</b>	<b>3.14</b>	NC (Noise Criteria)	27	32	36	39	42	44	46	48	50	
			Airflow, cfm	686	858	1029	1201	1372	1544	1715	1887	2058	
<b>24x22</b>	<b>3.67</b>	<b>3.43</b>	NC (Noise Criteria)	28	32	36	39	42	45	47	49	51	
			Airflow, cfm	700	875	1050	1225	1400	1575	1750	1925	2100	
<b>30x18</b>	<b>3.75</b>	<b>3.50</b>	NC (Noise Criteria)	28	32	36	39	42	45	47	49	51	
			Airflow, cfm	750	938	1125	1313	1500	1688	1875	2063	2250	
<b>24x24</b>	<b>4.00</b>	<b>3.75</b>	NC (Noise Criteria)	28	33	36	40	43	45	47	49	51	
			Airflow, cfm	942	1178	1413	1649	1884	2120	2355	2591	2826	
<b>30x24</b>	<b>5.00</b>	<b>4.71</b>	NC (Noise Criteria)	29	34	37	41	43	46	48	50	52	
			Airflow, cfm	1032	1290	1548	1806	2064	2322	2580	2838	2096	
<b>28x28</b>	<b>5.44</b>	<b>5.16</b>	NC (Noise Criteria)	29	34	38	41	44	46	49	51	52	
			Airflow, cfm	1102	1378	1653	1929	2204	2480	2755	3031	3306	
<b>30x28</b>	<b>5.83</b>	<b>5.51</b>	NC (Noise Criteria)	30	34	38	41	44	47	49	51	53	
			Airflow, cfm	1188	1485	1782	2079	2376	2673	2970	3267	3564	
<b>30x30</b>	<b>6.25</b>	<b>5.94</b>	NC (Noise Criteria)	30	35	38	42	44	47	49	51	53	

NC 50

• Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-2006

• NC based on room absorption of 10dB, re 10<sup>-12</sup> watts, measured per ANSI/ASHRAE Standard 70-2006